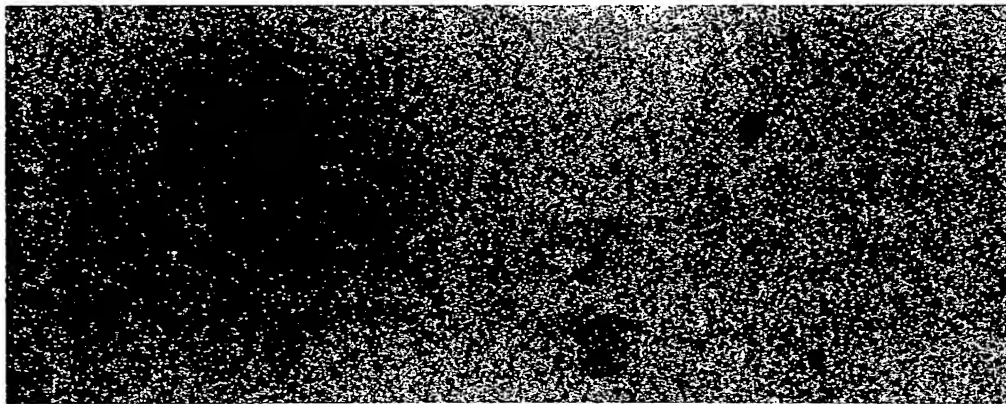


1/4



12.5 day

14.5 day

16.5 day

18.5 day



FIG. I

1 GCCCTGCTTGTAGTGTTCACCAGATCGCAGCGCAAGAACCCTGTTACATGAGATGCATGAG 60
61 CAGCTGGGCTCTGCAGAGGCTGCGGGAGCCGAGGGGTTCATGGCCAGCGCCGTGCGGCTCC 120
121 CAGACGCCGGGTCTTGGCTGCCCTCGCCCGGCCGCCGGCGGCGACGCACCGCCTTCGCCA 180
A G S W L P S P G R R R R R T A F A S
181 GCCGTCACGGCAAGCGACATGGCAAGAAGTCCAGGCTGCGCTGCAGCAGAAAGCCTCTGC 240
R H G K R H G K K S R L R C S R K P L H
241 ACGTGAATTTTAAGGAGTTAGGCTGGGACGACTGGATTATCGCGCCCTAGAGTACGAGG 300
V N F K E L G W D D W I I A P L E Y E A
301 CCTATCACTGCGAGGGCGTGTGCGACTTTCGCTGCGCTCGCACCTTGAGCCCACTAACC 360
Y H C E G V C D F P L R S H L E P T N H
361 ATGCCATCATTGACGCGCTGATGAACCTCCATGGACCCGGGCTCCACCCGCTAGCTGCT 420
A I I Q T L M N S M D P G S T P S C C
421 GCGTCCCACCAAACTGACTCCCATTAGCATCCTGTACATCGACGCGGCAATAATGTAG 480
V P T K L T P I S I L Y I D A G N N V V
481 TCTACAAGCAGTATGAGGACATGGTGGTGGAGTCTCGGCTGTAGGTAG 530
Y K Q Y E D M V V E S C G C R *

FIG.2

GDF-6 AFASRHGKRHGKKSRLRCSRKPLHVNFKELGWDDWIIAPLEYEAYHCEGVCDFFPLRSHLEP---
 RPRRDAEPVLGGPGGACRRRLYVSF-REVGWHRWVIAPRGFLANYCQGQCALPVALSGSGGPP
 REKRQAKHKQRKRLKSSCKRHPLYVDF-SDVGWNDWIVAPPGYHAFYCHGECFFPLADHLNS---
 BMP-2 KRSQKHSQRARKKNCRRHSLYVDF-SDVGWNDWIVAPPGYHAFYCHGDCFFPLADHLNS---
 BMP-4 SRGSGSDYNGSELKTACKKHLYVSF-QDLGWQDWIIAPKGYAANYCDGECFFPLNAHMA---
 Vgr-1 LRMANVAENSSDQRQACKKHLYVSF-RDLGWQDWIIAPEGYAAFYCDGECFFPLNSYMA---
 OP-1 SRMSSVGDYNTSEQQACKKHLYVSF-RDLGWQDWIIAPEGYAAFYCDGECFFPLNAHMA---
 BMP-5 EQTLKKARKQWIEPRNCARRYLVDF-ADIGWSEWIIIPKSFDAFYCSGACQFPMPSLKPS---
 BMP-3 GPGRAQRSAGATAADGPCALRELSVDL----RAERSVLIPETYQANNCCQGVCGWPQSDRNPRY---
 MIS ALRLLQRPPEEPAHANCHRVALNISF-QELGWERWIVPPSFIHYCHGGCGLHIPPNLSLPV-
 Inhibin α HRRRRRGLECDGV-NICCKQFFVSF-KDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSL-
 Inhibin β HRIKRGLECDGRT-NLCRCRQFFIDF-RLIGWNDWIIAPTGYGYNYCEGSCPAYLAGVPGSAS-
 Inhibin β HRRALDTNYCFSSSTEKNCCVRQLYIDFRKDLGWK-WIHEPKGYHANFCLGCPYIWSLD-----
 TGF- β 1 KKRALDAAYCFRNVDNCCLRPLYIDFKRDLGWK-WIHEPKGYNANFCAGACPYLWSSD-----
 TGF- β 2 KKRALDTNYCFRNLEENCCVRPLYIDFRQDLGWK-WIHEPKGYANFCSGCPYLRSD-----
 TGF- β 3

GDF-6 -TNHAI IQTLMS--MDPGSTPPSCQV--PTKLTPI SILYI-DAGNNVVYKQYEDMVVESGGCR
 ALNHAVLRALMHA--AAPGAADLPCQV--PARLSPI SVLFF-DNSDNVLRQYEDMVVDEGGCR
 BMP-1 -TNHAI VQTLVNS---VNSKIPKACQV--PTELSAI SMLYL-DENEKVVLKNYQDMVVEGGCR
 BMP-2 -TNHAI VQTLVNS---VNSKIPKACQV--PTELSAI SMLYL-DEYDKVVLKNYQDMVVEGGCR
 BMP-4 -TNHAI VQTLVNS---VNSKIPKACQV--PTELSAI SMLYL-DEYDKVVLKNYQDMVVEGGCR
 Vgr-1 -TNHAI VQTLVHL--MNPEYVVPKPCA--PTKLNAI SVLYF-DDNSNVILKKYRNMVVRACGCH
 OP-1 -TNHAI VQTLVHL--MNPEYVVPKPCA--PTKLNAI SVLYF-DDNSNVILKKYRNMVVRACGCH
 BMP-5 -TNHAI VQTLVHL--MFPDHPKPCA--PTKLNAI SVLYF-DDSSNVILKKYRNMVVRACGCH
 BMP-3 --NHATI QSI VRA-VGVVPGIPEPCQV--PEKMSSLSILFF-DENKNVVLKVPNMTVESGACR
 MIS -GNHVLL LKMQA--RGAALARPCCQV--PTAYAGKLLISLSEER--ISAHVPNMVATECGCR
 Inhibin α -PGAPPTPAQPS-----LLPGAQPCCAALPGTMRPLHVRTTSDGGYSFKYETVPNLLTQHACAI
 Inhibin β -SFHSTVINHYMRGHSFANLKSQV--PTKLRPMSMLY-DDGQNIKKDIQNMIVEECGCS
 Inhibin β -SFHTAVVNQYMRGLNPGT-VNSCCI--PTKLSTMSMLYF-DDEYNIVKRDVPMNIVEECGCA
 TGF- β 1 -TQYSKVLALYNQ--HNPGASAPPCQV--PQALEPLPIVY-VGRPKV-EQLSNMIVRSQKCS
 TGF- β 2 -TQHSRVL SLYNT--INPEASASPCQV--SQDLEPLTILYY-IGKTPKI-EQLSNMIVKSQKCS
 TGF- β 3 -TTHSTVLGLYNT--LNPEASASPCQV--PQDLEPLTILYY-VGRTPKV-EQLSNMIVKSQKCS

FIG. 3

[illegible]